

COMPLETE LISTING OF CLAIMS, INCORPORATING AMENDMENTS
IN RESPONSE TO OFFICE ACTION DATED 8/22/2006
FOR SERIAL NO. 10/721,996

CLAIMS

What is claimed is:

1. (Currently Amended) An isolated and purified mutant gene encoding a isoxaben resistant cellulose synthase comprising a cellulose synthase gene with a specified nucleic acid sequence, wherein the nucleic acid sequence comprises the nucleotide sequence of SEQ ID NO: 1.
2. (Canceled)
3. (Canceled)
4. (Withdrawn) The mutant gene of claim 1, wherein the nucleic acid sequence comprises the nucleotide sequence of SEQ ID NO: 2, or degenerate variant of SEQ ID NO; 2.
5. (Withdrawn) The mutant gene of claim 1, wherein the nucleic acid sequence comprises at least 20 contiguous nucleotides of SEQ ID NO: 2, including nucleotides 2992-2994 of SEQ ID NO: 2.
6. (Withdrawn) The mutant gene of claim 1, wherein the nucleic acid sequence comprises the nucleotide sequence of SEQ ID NO: 3, or degenerate variant of SEQ ID NO; 3.
7. (Withdrawn) The mutant gene of claim 1, wherein the nucleic acid sequence comprises at least 20 contiguous nucleotides of SEQ ID NO: 3, including nucleotides 2992-2994 and 3160-3162 of SEQ ID NO: 3.
8. (Currently Amended) An isolated and purified mutant gene encoding a isoxaben resistant cellulose synthase comprising a cellulose synthase gene with a specified nucleic acid sequence The mutant gene of claim 1, wherein the nucleic acid sequence comprises the nucleotide sequence of SEQ ID NO: 4, or degenerate variant of SEQ ID

NO:4.

9. (Canceled)
10. (Withdrawn) The mutant gene of claim 1, wherein the nucleic acid sequence comprises the nucleotide sequence of SEQ ID NO: 6, or a degenerate variant of SEQ ID NO: 6.
11. (Withdrawn) The mutant gene of claim 1, wherein the nucleic acid sequence comprises at least 20 contiguous nucleotides of SEQ ID NO: 6, including nucleotides 2292-2294 of SEQ ID NO: 6.
12. (Canceled)
13. (Canceled)
14. (Canceled)
15. (Canceled)
16. (Canceled)
17. (Canceled)